

CLAIMS

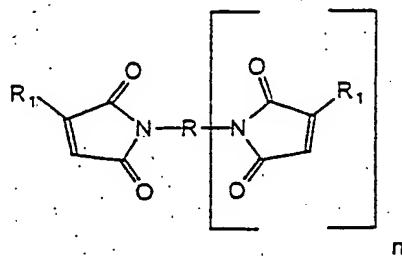
The subject matter which applicants regard as their invention is particularly pointed out and distinctly claimed as follows:

We Claim:

- 5 1. A composition comprising:
 a) At least one compound (A) selected from the group consisting of silicone elastomers and a compound having the formula (I):

(I)

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Wherein n is 1, or 2 and R is divalent, or trivalent and is selected from the group consisting of acyclic aliphatic groups having from about 2 to 16 carbon atoms, cyclic aliphatic groups having from about 5 to 20 carbon atoms, aromatic groups having from about 6 to 18 carbon atoms and alkyl aromatic groups having from about 7 to 24 carbon atoms, and wherein the divalent, or trivalent groups may contain one or more heteroatoms selected from O, N and S, replacing a carbon atom, or carbon atoms and each R₁ is identical and is hydrogen or an alkyl group of 1 to 18 carbon atoms; and

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b) At least one compound (B) selected from the group consisting of p-phenylenediamine based antiozonants and sulfur containing organic compounds selected from the group consisting of sulfur containing organic compounds capable of accelerating sulfur vulcanization of a polymer capable of being crosslinked by sulfur, polysulfide polymers and mixtures of said sulfur containing compounds.

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2. A composition as defined in claim 1 additionally containing a free

- radical initiator selected from the group consisting of organic peroxides and azo initiators.
3. A composition comprising a composition as defined in Claim 2 and a polymer curable by free radical initiators.
- 5 4. A process comprising forming the composition of Claim 3 into a shaped article and then subjecting it in the presence of molecular oxygen to a temperature sufficient to initiate decomposition of the free radical initiator and thereby obtaining a cured shaped article substantially free of surface tack.
- 10 5. A composition formed by mixing compounds (A) and (B) as defined in claim one.
6. A composition formed by mixing compounds (A) and (B) as defined in claim 1 and an organic peroxide in any order.
7. A composition as defined in claim 1 wherein compound (A) is selected from bismaleimides and Compound (B) is selected from sulfur accelerators.
- 15 8. A composition as defined in claim 1 wherein compound (A) is selected from biscitraconimides and compound (B) is selected from sulfur accelerators.
- 20 9. A composition as defined in claim 1 wherein compound (A) is selected from bismaleimides and compound (B) is selected from polysulfide polymers.
10. A composition as defined in claim 1 wherein compound (A) is selected from biscitraconimides and compound (B) is selected from polysulfide polymers.
- 25 11. A composition as defined in claim 1 wherein compound (A) is selected from silicone elastomers and compound (B) is selected from polysulfide polymers.
12. A composition as defined in claim 1 also comprising a compound selected from the group consisting of chlorinated polyethylene and chlorosulfonated polyethylene.
- 30 13. A composition as defined in claim 2 wherein the free radical initiator is selected from organic peroxides.
14. A surface tack free cured polymer cured in the presence of

molecular oxygen by free radicals generated by decomposition of the free radical initiator in a composition as defined in claim 3.

15. A process for making a surface tack free cured polymer cured by free radicals generated by decomposition of a free radical initiator contained therein in the presence of molecular oxygen which comprises compounding said polymer with a composition as defined in claim 2 and supplying sufficient heat energy to decompose the free radical initiator thus introduced into the polymer.
- 10 16. A process for making a curable composition capable of being cured to a tack free surface in the presence of molecular oxygen by a free radical initiator which process comprises compounding a polymer capable of being crosslinked by a free radical initiator with a composition as defined in claim 2.
- 15 17. A process for making a curable composition capable of being cured to a tack free surface in the presence of molecular oxygen by a free radical initiator which comprises compounding a polymer capable of being crosslinked by a free radical initiator containing a composition as defined in claim 1 in the presence of a free radical initiator.
- 20 18. A composition as defined in claim 1 wherein compound (A) is selected from one or more bismaleimides and compound (B) is selected from the group consisting of dialkylthiuram tetrasulfides, diarylthiuram tetrasulfides, alkylphenol disulfides, tetraalkylthiuram monosulfides, tetraarylthiuram monosulfides and mixtures thereof.
- 25 19. A composition as defined in claim 2 wherein the free radical initiator is selected from dialkyl peroxides or peroxyketals.
- 20 20. A composition as defined in claim 18 additionally containing a free radical initiator selected from dialkyl peroxides or peroxyketals.
- 30 21. A composition as defined in claim 1 wherein compound (A) is selected from one or more bismaleimides and compound (B) is selected from the group consisting of 1,4-dithiomorpholine, acyclicalkyl-2-benzothiazole sulfenamides, cyclicalky-2-

- benzothiazole sulfenamides, aryl-2-benzothiazole sulfenamides, alkylphenol disulfides and mixtures thereof.
22. A composition as defined in claim 21 additionally containing a free radical initiator selected from dialkyl peroxides, or peroxyketals.
- 5 23. A composition as defined in claim 2 comprising dicumylperoxide, N,N-phenylenebismaleimide, 4,4dithiomorpholine, alkyphenoldisulfide and N-cyclohexyl-2-benzothiazole sulfenamide.
- 10 24. A composition as defined in claim 2 comprising dicumylperoxide, N,N-phenylenebismaleimide, dipentamethylene thiuram tetrasulfide, alkyphenoldisulfide and tetramethylthiuram monosulfide.
- 15 25. A composition as defined in claim 2 comprising dicumyl peroxide, N,N-phenylenebismaleimide, dipentamethylenethiuram tetrasulfide, alkyphenol disulfide and N-t-butyl-benzothiazole-2-sulfenimide.
- 20 26. A composition as defined in claim 1 formulated as a masterbatch on a carrier selected from the group consisting of microcrystalline wax, polycaprolactone, EPDM, EPM, EVA, PE and mixtures thereof.
27. A composition as defined in claim 2 formulated as a masterbatch on a carrier selected from microcrystalline wax, polycaprolactone, EPDM, EPM, EVA, PE and mixtures thereof.